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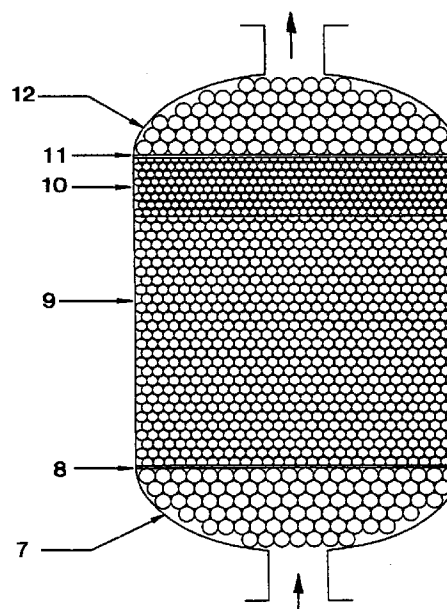
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(54) Process and device for purifying gas using pressure swing adsorption

(57) The invention comprises a PSA gas prepurifier for the removal of contaminants present in a feed gas stream. The prepurifier of the invention has a bed of adsorbent material which comprises at least two discrete layers of adsorbents (9,10), at least one of said adsorbents being comparatively strong and at least another of said adsorbents being comparatively weak.



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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	DATABASE WPI Section Ch, Week 8732 Derwent Publications Ltd., London, GB; Class E36, AN 87-224219 XP002061957 & JP 62 148 304 A (NIPPON SANSO KK) , 2 July 1987 * abstract *	1-3,7, 9-11	B01D53/047
A	--- EP 0 449 576 A (BOC GROUP INC) * claims 1-12; examples 1,2 *	1-11	
A	--- EP 0 453 202 A (BOC GROUP INC) * the whole document *	1-11	
D,A	--- & US 5 232 474 A		
A	--- EP 0 658 364 A (PRAXAIR TECHNOLOGY INC) * page 5 - page 7 * * page 30, line 4 - line 19; claims 1-20 * -----	1-11	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B01D
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
BERLIN		9 April 1998	Cubas Alcaraz, J
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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